AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A digital signal processor comprising:

an instruction memory, a central arithmetic unit, a register, a controller, an event control unit and input/output devices;

the instruction memory is arranged to include one or more operation codes including logical operations, time performance constraints and events;

the eentrollers controller is arranged to initiate operation of the event control unit in response to one of the one or more operation codes, suspend all further processing of the time performance constraints after initiating operations in an event control unit and resume processing of the time performance constraints when advised by the event control unit; and

the event control unit is arranged to recognize an event and in response to the detection of the event execute a processing operation and initiate or resume processing of the controller upon completion of the processing operation, wherein the event is an input signal or a completion of processing from a previous event and the operation code comprises an event operand arranged to identify the input signal or previous event to initiate or resume processing of the event control unit and a delay operand comprising those time performance constraints executed by a counter in the event control unit.

- 2. (Previously presented) A digital signal processor in accordance with claim 1, wherein the event is detected by the event control unit.
- (Previously presented) A digital signal processor in accordance with claim 2, wherein
 the event control unit is arranged to detect input signals.

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4. (Previously presented) A digital signal processor in accordance with claim 2, wherein a further event is recognized as a completion of the processing carried out as a consequence of the event.

(Previously presented) A digital signal processor in accordance with claim 1, wherein
the event is recognized as a completion of the processing carried out as a consequence of a previous
event.

(Previously presented) A digital signal processor in accordance with claim 1, wherein
the event control unit includes a signal memory arranged to store and extract data under control of
the event control unit.

 (Previously presented) A digital signal processor in accordance with claim 6, wherein the signal memory is a vector memory.

Claims 8 and 9 (Cancelled)

(Currently Amended) A digital signal processor in accordance with claim 1, including two
ore-or more event control units arranged to work independently from each other.

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